DECAPTERUS HYPODUS Gill.

The greatest height is less than a fifth (·18) of the total length. The head forms a quarter of the same. The diameter of the orbit equals a quarter of the head's length, and the snout enters three times and a third in the same. The lateral line has a very slight sigmoidal flexure and is covered with very conspicuous discoid scales; the lateral line is trifid on each scale, giving out an oblique process above and another below. The teeth on the lower jaw are small and uniserial; the tongue has a longitudinal narrow band.

D. VII. I. 31—I. A. II. I. 26—I.

Lateral line (70+) 30.

The color above is greenish-blue; the opercular spot small.

Five specimens were obtained. It is, perhaps, most closely related to *Decapterus macarellus*,—the *Caranx macarellus* of Cuvier and Valenciennes, which differs at least in proportions as well as the number of rays and plates of the lateral line. The dentition has not been described, and the species is autoptically unknown to me.

BLEPHARICHTHYS CRINITUS Gill.

I have not been yet able to satisfy myself as to the specific distinction between representatives of this genus from widely separated places, and therefore prefer for the present to refer two specimens obtained by Mr. Xantus at Cape St. Lucas to the species above named.

Subfamily TRACHYNOTINÆ Gill.

TRACHYNOTUS PAMPANUS Cuv. et Val.

As in the case of *Blepharichthys*, I cannot give any positive characters to distinguish the Atlantic and Californian representatives of *Trachynotus* from each other. With Günther, I believe that *Bothrolœmus pampanus* of Hölbrook is the aged form of *Doliodon carolinus*, in which the teeth are lost. In the specimen described by Dekay, said to have the "teeth so minute as scarcely to be distinguished," I cannot distinguish even minute teeth. Trusting to the American naturalists who had, I supposed, fully studied the species, I retained in the Catalogue of the Fishes of the Eastern Coast the four species and three genera admitted by them; they are apparently, however, as stated by Günther, referrible to two species belonging to one genus.

NOTE.—Very young *Carangoids* have a *trispinous preoperculum*, and always a distinct spinous dorsal fin. *Nanclerus* and *Seriola dussumieri* are founded on young specimens of *Nancrates*.

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## Description of a New Genus (GONIOBASIS) of the Family MELANIDÆ and eighty-two new Species.

BY ISAAC LEA

Family *MELANIDÆ*.

Genus GONIOBASIS.*

Testa vel conica vel fusiformi. Apertura rhomboidea, infernè subangulata. Columella supernè interdum incrassata. Operculum corneum, ad spiram pertinens.†

In my paper on the genus *Trypanostoma*, proposed by me, I mentioned the

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* Γωνια, angle, and βασις, base.

† This genus may be divided into two groups, one embracing the conical, the other, the fusiform species, and these into smooth, plicate, carinate, &c.

importance of eliminating as many species as possible from *Melania*, which is so enormously extended as almost to prevent the possibility of finding suitable names for its species. In the Proceedings of the Academy, December, 1861, I stated that Professor Haldeman's genus *Lithasia* formed a very excellent group. In working up a very large number of the family *Melanidæ*, obtained from the Southern and Western States, I have, notwithstanding the divisions which had been made, found myself embarrassed with that form of aperture, which is quite different from the auger-mouthed (*Trypanostoma*) species and the *Lithasia*, to which latter they are most nearly allied. I mean those which usually, though not always, have a slight thickening of the upper part of the columella and no callus below, and which are also without the notch of *Lithasia*, although subangular at base. In this subangular character they differ from *Melania* proper, which are round or loop-like at the base. For this group I propose the name of *Goniobasis*,* which will give us for our American *Melanidæ* the following genera, all of them having spiral *opercula:*

*Melania*,† Lam. *Anculosa*, Say. *Io*, Lea. *Lithasia*, Hald. *Schizostoma*, Lea. *Strephobasis*, Lea. *Trypanostoma*, Lea. *Goniobasis*, Lea. *Amnicola*, Gould and Hald.

They may be known by

*Melania* having a regular loop-form aperture.

*Anculosa* having a rounded aperture and a callous columella.

*Io* having a greater or less elongate channel or spout at the base.

*Lithasia* having a callus on the columella above and below, and a notch at the base.

*Schizostoma* having a cut in the upper part of the outer lip.

*Strephobasis* having a retrorse callus at base and usually a squarish aperture.

*Trypanostoma* having an expanded outer lip and an auger-shaped aperture.

*Goniobasis* having usually a subrhomboidal aperture, subangular at base and without a channel.

*Amnicola*‡ having a round mouth and no callus.

Goniobasis osculata.—Testâ lævi, pupæformi, subelevatâ, subcrassâ, luteo-fuscâ, quadrivittatâ; spirâ subelevatâ; suturis valdè et irregulariter impressis; anfractibus septenis, convexiusculis; aperturâ parvâ, constrictâ, subellipticâ, intus albidâ et vittatâ; labro acuto; columellâ albâ, inflectâ, ad basim contortâ et subangulatâ.

*Hab.*—Coosa River, Alabama, E. R. Showalter, M. D.

Goniobasis Brumbyi.—Testâ lævi, attenuatâ, subtenui, cinereâ, quadrivittatâ; spirâ attenuatâ, ad apicem carinatâ; suturis valdè impressis; anfractibus instar octonis, convexiusculis; aperturâ parvâ, subrhomboideâ, intus albidâ et quadrivittatâ; labro acuto; columellâ inflectâ, ad basim obtusè angulatâ.

*Hab.*—Alabama, Prof. Brumby.

Goniobasis Grosvenorii.—Testâ lævi, subattenuatâ, tenui, corneâ, fulgidâ, evittatâ; spirâ subattenuatâ, mucronatâ, ad apicem carinatâ; suturis regulariter et valdè impressis; anfractibus octonis, convexis; aperturâ parvâ, subrotundâ; intus albidâ; labro acuto, paulisper sinuoso; columellâ inflectâ, tenui et contortâ.

*Hab.*—Fox River, Illinois, H. C. Grosvenor; and Quincy, Ohio, J. Clark.

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* Adams's *Elimia* takes in part of this genus.

† Cuvier describes *Melania* as having long tentacula, the eyes being on the exterior side about the third of the length. The eyes of *Melania Virginica*, Say, are at the base of short tentacula. I very much doubt if we have a single species in the United States which properly belongs to this genus, which Cuvier considered *amarula* as the type and Lamarck *asperata* as the type.

‡ *Amnicola*, although much like *Paludina*, is more nearly allied to the *Melanidæ*. The operculum is spiral, and therefore very different in this character from *Paludina*.

Goniobasis parva.—Testâ lævi, conicâ, tenui, corneâ, evittatâ; spirâ subelevatâ, mucronatâ; suturis impressis; anfractibus septenis, planulatis; aperturâ parvisculâ, intus albidâ, subrhomboideâ; labro acuto et sinuoso; columellâ inflectâ et paulisper incrassatâ.

*Hab.*—Georgia, Right Rev. Stephen Elliott.

Goniobasis spinella.—Testâ lævi, valdè attenuatâ, tenui, tenebroso-olivâ, evittatâ; spirâ valdè elevatâ, mucronatâ; suturis regulariter impressis; anfractibus instar novenis, planulatis; aperturâ parvissimâ, ovatâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ inflectâ et infernè paulisper incrassatâ.

*Hab.*—Sycamore, Claiborne County, Tennessee, J. Lewis, M. D.

Goniobasis Estabrookii.—Testâ lævi, conicâ, subtenui, rufo-corneâ, evittatâ; spirâ attenuato-conicâ, mucronatâ; suturis impressis; anfractibus denis, convexiusculis; aperturâ parvisculâ, ovatâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ inflectâ.

*Hab.*—Knoxville, Tennessee, Prof. Estabrook.

Goniobasis Prairiensis.—Testâ lævi, attenuato-fusiformi, tenui, olivaceâ, fulgidâ, quadrovittatâ; spirâ elevatâ, mucronatâ; suturis regulariter impressis; anfractibus novenis, planulatis; aperturâ submagnâ, subrhomboideâ, intus albidâ et quadrivittatâ; labro acuto et sinuoso; columellâ inflectâ et contortâ.

*Hab.*—Big Prairie Creek, Alabama, E. R. Showalter, M. D.

Goniobasis Etowahensis.—Testâ lævi, conoideâ, tenui, tenebrosâ, bivittatâ; spirâ subelevatâ; suturis impressis; anfractibus septenis, convexiusculis; aperturâ submagnâ, subrhomboideâ, intus tenebrosâ et latè bivittatâ; labro acuto et sinuoso; columellâ inflectâ et valdè contortâ.

*Hab.*—Etowah River, Georgia, J. Postell.

Goniobasis Draytonii.—Testâ lævi, conoideâ, crassiusculâ, tenebroso-castaneâ, evittatâ vel obsoletè vittatâ; spirâ subelevatâ; suturis valdè impressis; anfractibus instar senis, convexis; aperturâ parvâ, ovatâ, intus tenebroso-fuscâ; labro acuto, paulisper sinuoso; columellâ valdè inflectâ et contortâ.

*Hab.*—Fort George, Oregon, J. Drayton; also at Walla.

Goniobasis tenebrovittata.—Testâ lævi, elevato-conicâ, subtenui, flavescente vel vittatâ vel evittatâ; spirâ subelevatâ; suturis paulisper impressis; anfractibus planulatis; aperturâ subgrandi, subrhomboideâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ paulisper inflectâ.

*Hab.*—Coosa River, W. Spillman, M. D.

Goniobasis Spillmanii.—Testâ lævi, fusiformi, tenui, virido-corneâ, fulgidâ, evittatâ; spirâ obtusè conoideâ; suturis linearibus; anfractibus instar senis, planulatis, infra suturis subimpressis; aperturâ magnâ, rhomboideâ, intus diaphanâ; labro acuto, paulisper sinuoso; columellâ paulisper inflectâ et tenui.

*Hab.*—Tennessee River, W. Spillman, M. D.

Goniobasis flava.—Testâ lævi, obtuso-conicâ, subtenui, flavâ, trivittatâ; spirâ obtuso-conicâ; suturis valdè impressis; anfractibus instar senis, convexiusculis; aperturâ parviusculâ, ovatâ, intus albâ et trivittatâ; labro acuto, paulisper sinuoso; columellâ incurvâ, incrassatâ.

*Hab.*—Benton County? Northwest Alabama, G. Hallenbeck.

Goniobasis Anthonyi.—Testâ lævi, obtuso-conicâ, subtenui, micanti, tenebroso-castaneâ, evittatâ; spirâ obtusâ; suturis impressis; anfractibus instar senis, convexiusculis; aperturâ subgrandi, elongato-rhombicâ, intus fuscescente; labro acuto, ad marginem albidâ et paulisper inspissatâ; columellâ incurvâ et valdè contortâ.

*Hab.*—Tennessee, J. G. Anthony.

Goniobasis Gabbiana.—Testâ lævi, subfusiformi, subtenui, cornea, evittatâ; spirâ paulisper exertans, mucronatâ; suturis impressis; anfractibus instar octonis, convexis, varicosis; aperturâ parvius culâ, subrhomboideâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Tennessee, Prof. G. Troost. Alabama, Prof. Tuomey.

Goniobasis Bridgesiana.—Testâ lævi, fusiformi, subinflatâ, subtenui, melleâ, evittatâ; spirâ obtusè conicâ, ad apicem carinatâ; suturis linearibus; anfractibus instar septenis, planulatis; aperturâ magnâ, subrhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ subinflectâ, infernè et supernè incrassatâ et paulisper contortâ.

*Hab.*—Cahawba River, Alabama, E. R. Showalter, M. D.

Goniobasis intercedens.—Testâ lævi, fusiformi, subtenui, mellcâ, fulgidâ, evittatâ; spirâ conoideâ, mucronatâ, ad apicem carinatâ; suturis linearibus; anfractibus octonis, planulatis, varicosis; aperturâ submagnâ, rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ subinflectâ, paulisper incrassatâ, infernè subrectâ.

*Hab.*—Cahawba River, Alabama, E. R. Showalter, M. D.

Goniobasis Ohiensis.—Testâ lævi, conicâ, subtenui, evittatâ; spirâ obtusè conicâ, mucronatâ, ad apicem carinatâ; suturis valdè impressis; anfractibus instar novenis, convexis; aperturâ parvâ, subrotundâ, intus albâ; labro acuto, vix sinuoso; columellâ inflectâ, valdè incrassatâ.

*Hab.*—Yellow Springs, Ohio.

Goniobasis cinerea.—Testâ lævi, conoideâ, tenui, cinercâ, fulgidâ; spirâ obtusè conicâ, mucronatâ, ad apicem carinatâ; suturis valdè impressis; anfractibus octonis, convexiusculis; aperturâ submagnâ, subrhomboideâ, intus cæruleo-albâ; labro acuto, paulisper sinuoso; columellâ incurvâ; paulisper incrassatâ et purpurescente.

*Hab.*—South Carolina, Professor L. Vanuxem.

Goniobasis Vanuxemii.—Testâ lævi, fusiformi, subcrassâ, tenebroso-corneâ; spirâ obtusè conoideâ; suturis impressis; anfractibus septenis, subconvexis; aperturâ magnâ, subrhomboideâ, intus albidâ vel purpureâ; labro acuto, paulisper sinuoso; columellâ incurvâ, supernè et infernè incrassatâ.

*Hab.*—North Fork of the Holston River, Virginia, Prof. L. Vanuxem.

Goniobasis Spartenburgensis.—Testâ lævi, fusiformi, subtenui, virido-corneâ, fulgidâ, vittatâ vel evittatâ; spirâ acutè conicâ, ad apicem carinatâ; suturis impressis; anfractibus octonis, planulatis; aperturâ submagnâ, elongato-rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ paulisper incurvâ, infernè incrassatâ.

*Hab.*—Spartenburg District, S. Carolina. Prof. L. Vanuxem. Marietta, Ohio, Dr. Hildreth. Wabash River, Indiana, H. C. Grosvenor.

Goniobasis auricoma.—Testâ lævi, fusiformi, subtenui, melleâ, vittatâ; spirâ valdè obtusâ; suturis linearibus; anfractibus quinis, vix convexis; aperturâ pergrandi, subrhomboideâ, intus flavescente; labro acuto, vix sinuoso; columellâ incurvâ, paulisper incrassatâ.

*Hab.*—Tennessee River, W. Spillman, M. D.

Goniobasis Georgiana.—Testâ lævi, fusiformi, inflatâ, subcrassâ, luteâ, fulgidâ, vittatâ; spirâ valdè obtusâ; suturis impressis; anfractibus quinis, convexis; aperturâ grandi, subrhomboideâ, intus albidâ et vittatâ; labro acuto, recto; columellâ incurvâ, incrassatâ, parum contortâ.

*Hab.*—North Georgia.

Goniobasis Vauxiana.—Testâ lævi, fusiformi, subtenui, viridi; spirâ valdè obtusâ; suturis parum impressis; anfractibus quinis, supernè planulatis et

carinatis; aperturâ pergrandi, lato-rhomboideâ; labro acuto, recto; columellâ parum incurvâ.

*Hab.*—Coosa River, Alabama, Prof. Brumby.

Goniobasis Whitei.—Testâ lævi, fusiformi, crassâ, valdè inflatâ, luteo-fuscâ, fulgidâ trivittatâ; spirâ valdè obtusâ; suturis parum impressis; anfractibus quinis, supernè planulatis, ultimo ventricoso; aperturâ pergrandi, lato-rhomboideâ; labro acuto, recto; columellâ incurvâ, incrassatâ et contortâ.

*Hab.*—Georgia, Rev. G. White.

Goniobasis Binneyiana.—Testâ lævi, obtuso-fusiformi, subtenui, valdè inflatâ, tenebroso-olivâ, obsoletè vittatâ; spirâ depressâ; suturis impressis; anfractibus quinis, supernè planulatis, ultimo ventricoso; aperturâ pergrandi, subovatâ, intus tenebrosâ; labro acuto, parum sinuoso; columellâ incrassatâ, ad basim maculatâ.

*Hab.*—Coosa River, Alabama, W. Spillman, M. D.

Goniobasis Tuomeyi.—Testâ lævi, fusiformi, crassiusculâ, luteo-olivâ, vittatâ vel evittatâ; spirâ obtuso-conicâ, ad apicem minutè plicatâ; suturis impressis; anfractibus instar senis, supernè planulatis, ultimo subventricoso; aperturâ grandi, rhomboideâ, intus albidâ; labro acuto, parum sinuoso; columellâ incrassatâ, incurvâ et contortâ.

*Hab.*—North Alabama, Prof. M. Tuomey.

Goniobasis fabalis.—Testâ lævi, ellipticâ, crassâ, luteâ, quadro-vittatâ; spirâ valdè obtusâ; suturis irregulariter impressis; anfractibus quaternis, supernè convexiusculis, ultimo pergrandi; aperturâ magnâ, subrhomboideâ, intus albidâ et vittatâ; labro acuto, vix sinuoso; columellâ infernè et supernè incrassatâ.

*Hab.*—Tennessee River, W. Spillman, M. D.

Goniobasis gibberosa.—Testâ lævi, subfusiformi, crassâ, pallido-castaneâ vel rufo-castaneâ, vittatâ vel evittatâ; spirâ obtusâ; suturis irregulariter impressis; anfractibus gibberosis, supernè convexiusculis, ultimo pergrandi, aperturâ pergrandi, rhomboideâ, intus albâ; labro acuto, sinuoso; columellâ incurvâ, supernè et infernè incrassatâ.

*Hab.*—Alabama River, E. R. Showalter, M. D.

Goniobasis Lyonii.—Testâ plicatâ, supernè striatâ et ad apicem carinatâ, luteolâ, subtenui, valdè exertâ; spirâ attenuatâ, mucronatâ; suturis irregulariter impressis; anfractibus novenis, convexiusculis; aperturâ parviusculâ, subrhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ incurvâ, incrassatâ, parum contortâ.

*Hab.*—Grayson County, Kentucky, S. S. Lyon.

Goniobasis Pybasii.—Testâ plicatâ, valdè exertâ, luteolâ, tenui, vittatâ; spirâ attenuatâ, mucronatâ; suturis impressis; anfractibus septenis, planulatis; aperturâ ovato-rhomboideâ, intus albidâ et vittatâ; labro acuto, sinuoso; columellâ paulisper incurvâ, parum incrassatâ et contortâ.

*Hab.*—Tuscumbia, Alabama, B. Pybas.

Goniobasis Duttonii.—Testâ plicatâ, conoideâ, dilutè rufo-luteâ, crassâ, bivittatâ; spirâ conoideâ; suturis irregulariter impressis; anfractibus instar septenis, subconvexis; aperturâ ovato-rhomboideâ, intus albâ et lato-vittatâ; labro acuto, sinuoso; columellâ incurvâ, incrassatâ et valdè contortâ.

*Hab.*—Maurey County, Tennesse, T. R Dutton. Grayson County, Kentucky, S. S. Lyon.

Goniobasis Doolyensis.—Testâ plicatâ, subcylindraceâ, tenebroso-corneâ vel subsinereâ, tenui, evittatâ; spirâ attenuatâ; suturis irregulariter impressis; anfractibus instar novenis, convexiusculis, aperturâ parvâ, ovato-rhomboideâ,

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intus albidâ; labro acuto, sinuoso; columellâ valdè incurvâ, in medio impressâ et valdè contortâ.

*Hab.*—Tennessee, Prof. Troost. Near Vienna, Dooly County, Georgia, in a small stream tributary to Flint River, Rev. G. White.

Goniobasis Viennaensis.—Testâ plicatâ, subfusiformi, olivaceâ, subtenui, evittatâ; spirâ regulariter conicâ; suturis irregulariter impressis; anfractibus septenis, planulatis; aperturâ subgrandi, rhomboideâ, intus cæruleo-albâ; labro acuto, sinuoso; columellâ incurvâ, infernè incrassatâ, parum contortâ.

*Hab.*—Near Vienna, Dooly County, Georgia, in a small stream tributary to Flint River, Rev. G. White.

Goniobasis strenua.—Testâ plicatâ, subfusiformi, fusco-olivaceâ, subtenui, evittatâ; spirâ subelevatâ; suturis valdè impressis; anfractibus instar septenis, planulatis; aperturâ subgrandi, ovato-rhomboideâ, intus albidâ; labro acuto, subsinuoso; columellâ incurvâ et contortâ.

*Hab.*—Benton County? Northwest Alabama, G. Hallenbeck.

Goniobasis sparus.—Testâ plicatâ, subattenuatâ, pallido-flavescente, subcrassâ, evittatâ; spirâ attenuatâ, mucronatâ; suturis irregulariter impressis; anfractibus octonis, convexiusculis; aperturâ submagnâ, ovato-rhomboideâ, intus albâ; labro acuto, sinuoso; columellâ parum incurvâ, supernè luteâ, infernè albâ, contortâ.

*Hab.*—Tennessee, Dr. Currey and Prof. Lindsley.

Goniobasis difficilis.—Testâ plicatâ, subattenuatâ, tenebroso-olivâ vel fuscescente, subtenui, evittatâ; spirâ attenuatâ, mucronatâ; suturis regulariter impressis; anfractibus instar octonis, convexiusculis; aperturâ parviusculâ, ovato-rhomboideâ, intus albidâ; labro acuto, subsinuoso; columellâ incurvâ, incrassatâ et contortâ.

*Hab.*—Tennessee, Dr. Edgar.

Goniobasis Bairdiana.—Testâ plicatâ, subattenuatâ, tenebroso-fuscâ, subcrassâ, unovittatâ; spirâ subattenuatâ, mucronatâ; suturis impressis; anfractibus octonis, convexiusculis; aperturâ parviusculâ, ovato-rhomboideâ, intus albidâ et unovittatâ; labro acuto, vix sinuoso; columellâ incurvâ, parum incrassatâ et valdè contortâ.

*Hab.*—Columbia River, at Fort George, Oregon, J. Drayton.

Goniobasis inclinans.—Testâ valdè plicatâ, subattenuatâ, tenebroso-fuscâ, subtenui, obsoletè vittatâ; spirâ subattenuatâ, mucronatâ; suturis sulcatis; anfractibus octonis, planulatis, plicis inclinatibus indutis; aperturâ parvâ, rhomboideâ, intus dilutè fuscescente; labro acuto, sinuoso; columellâ valdè incurvâ, fusco-rufescente et valdè contortâ.

*Hab.*—Near Albany, Georgia, Rev. G. White. Etowah, J. Postell. Tuscumbia, Alabama, B. Pybas.

Goniobasis induta.—Testâ valdè plicatâ, conicâ, subtenui, politâ, tenebrosâ, quadrivittatâ; spirâ conoideâ, mucronatâ; suturis valdè impressis; anfractibus octonis, planulatis, plicis erectis indutis; aperturâ parvâ, rhomboideâ, intus albidâ et quadrivittatâ; labro acuto, subsinuoso; columellâ incurvâ et contortâ.

*Hab.*—Near Vienna, Dooly County, Georgia, Rev. G. White.

Goniobasis Lindsleyi.—Testâ plicatâ, cylindraceo-conicâ, subtenui, luteo-corneâ, evittatâ; spirâ conoideâ; suturis irregulariter et valdè impressis; anfractibus planulatis, plicis erectis undutis; aperturâ parvinsculâ, rhomboideâ, intus cæruleo-albâ; labro acuto, sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Tennessee, Prof. Lindsley and Dr. Edgar.

Goniobasis Thortonii.—Testâ rugoso-plicatâ, conoideâ, subtenui, corneâ, evittatâ; spirâ conoideâ; suturis irregulariter et valdè impressis; anfractibus convexiusculis, plicis flexis distantibus indutis; aperturâ submagnâ, rhomboideâ, intus albâ; labro acuto, sinuoso; columellâ subincurvâ, incrassatâ et contortâ.

*Hab.*—Tuscumbia, L. B. Thornton, Esq. Florence, Alabama, Rev. G. White.

Goniobasis interveniens.—Testâ plicatâ, conoideâ, subtenui, tenebroso-corneâ, vel fuscâ, vel bivittatâ vel evittatâ; spirâ obtusè conoideâ; suturis irregulariter et valdè impressis; anfractibus instar senis, planulatis, plicis paulisper flexis; aperturâ subgraudi, rhomboideâ, intus albâ vel vittatâ vel fuscâ; labro acuto, sinuoso; columellâ incurvâ et parum contortâ.

*Hab.*—North Alabama, Prof. Tuomey.

Goniobasis continens.—Testâ plicatâ, conoideâ, subtenui, luteo-corneâ, evittatâ; spirâ regulariter conicâ; suturis impressis; anfractibus instar septenis, convexiusculis, plicis paulisper flexis; aperturâ parviusculâ, ovato-rhomboideâ, intus cæruleo-albâ; labro acuto, vix sinuoso; columellâ parum incurvâ et contortâ.

*Hab.*—North Alabama, Prof. Tuomey.

Goniobasis cerea.—Testâ plicatâ, conoideâ, subtenui, cereâ, evittatâ; spirâ conoideâ: suturis impressis; anfractibus senis, subconvexis, plicis minutis: aperturâ grandiusculâ, elongato-rhomboideâ, intus albidâ; labro acuto, sinuoso: columellâ incurvâ et contortâ.

*Hab.*—Tennessee, Prof. Troost; and Duck Creek, Tennessee, J. Clark.

Goniobasis viridicata.—Testâ plicatâ, subattenuatâ, tenui, viridescente, evittatâ; spirâ conoideâ, subattenuatâ; suturis impressis; anfractibus instar septenis, planulatis, plicis subcrebris; aperturâ parvissimâ, rhomboideâ, intus cæruleo-albâ; labro acuto, parum sinuoso; columellâ incurvâ, supernè flavescente, infernè albidâ, contortâ.

*Hab.*—Grayson County, Kentucky, S. S. Lyon.

Goniobasis Leidyana.—Testâ plicatâ, fusiformi, subtenui, luteo-corneâ, evittatâ; spirâ obtuso-conicâ; suturis linearibus; anfractibus senis, planulatis; aperturâ pergrandi, ovato-rhomboideâ, intus albidâ; labro acuto, tenui: columellâ incurvâ, ad basim contortâ.

*Hab.*—Benton County, Northwest Alabama, G. Hallenbeck, Esq.

Goniobasis Abbevillensis.—Testâ plicatâ, conoidcâ, subcrassâ, castaneâ, fulgidâ, evittatâ; spirâ conicâ; suturis linearibus; anfractibus septenis, convexiusculis, ferè planulatis, ad apicem carinatis et striatis; aperturâ grandiusculâ, ovato-rhomboideâ, intus subochraceâ; labro acuto, vix sinuoso: columellâ incrassatâ et contortâ.

*Hab.*—Abbeville District, S. Carolina, J. P. Barratt, M. D.

Goniobasis amœna.—Testâ plicatâ, subfusiformi, crassâ, dilutè castaneâ, evittatâ; spirâ obtusè conoidcâ; suturis irregulariter impressis; anfractibus instar senis, subconvexis, ad apicem striatis; aperturâ grandi, ovato-rhomboideâ, intus albidâ; labro acuto, parum sinuoso, columellâ incrassatâ, incurvâ et contortâ.

*Hab.*—North Alabama, Prof. Tuomey.

Goniobasis paupercula.—Testâ plicatâ, subcylindraceâ, subtenui, castaneâ vel tenebroso-olivâ, evittatâ; spirâ curtiusculâ; suturis impressis; anfractibus convexiusculis, supernè plicatis, ad apicem striatis; aperturâ parvâ, ovato-rhomboideâ, intus albidâ; labro acuto, parum sinuoso; columellâ incurvâ et paulisper contortâ.

*Hab.*—North Alabama, Prof. Tuomey.

Goniobasis proletaria.—Testâ plicatâ, obtusè conoideâ, subtenui, corneâ,

evittatâ; spirâ obtusè conicâ; suturis impressis; anfractibus instar senis, convexiusculis, supernè plicatis; aperturâ grandiusculâ, subrhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ incurvâ, incrassatâ et contortâ.
*Hab.*—Florence, Alabama, Rev. G. White.

Goniobasis inconstans.—Testâ plicatâ, subfusiformi, subtenui, corneâ vel olivaceâ vel tenebroso-fuscâ, vittatâ vel evittatâ; spirâ obtusè conicâ; suturis impressis; anfractibus senis, convexiusculis, supernè plicatis; aperturâ grandiusculâ, subrhomboideâ, intus albidâ vel dilutè purpureâ vel vittâta; labro acuto, parum sinuoso; columellâ incurvâ et contortâ.
*Hab.*—Etowah River, J. Postell.

Goniobasis mediocris.—Testâ plicatâ, subfusiformi, subtenui, cinereâ, fulgidâ, vittatâ; spirâ conoideâ; suturis irregulariter impressis; anfractibus senis, planulatis; aperturâ grandiusculâ, rhomboideâ, intus albidâ et vittatâ; labro acuto, sinuoso; columellâ incurvâ, incrassatâ et contortâ.
*Hab.*—Tennessee, Dr. Edgar and President Lindsley.

Goniobasis crispa.—Testâ plicatâ et transversè striatâ, fusiformi, subcrassâ, luteolâ, crispatâ, evittatâ; spirâ obtusâ; suturis irregulariter impressis; anfractibus instar senis, convexiusculis; aperturâ grandi, ovato-rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ parum incurvâ et contortâ.
*Hab.*—Florence, Alabama, Rev. G. White.

Goniobasis ornatella.—Testâ plicatâ, fusiformi, crassiusculâ, luteo-corneâ, vittatâ; spirâ obtuso-conoideâ; suturis irregulater et valdè impressis; anfractibus instar senis, convexis; aperturâ grandi, ovato-rhomboideâ, albidâ et obsoletè vittatâ; labro acuto, vix sinuoso; columellâ parum incurvâ et contortâ.
*Hab.*—Tennessee, Coleman Sellers.

Goniobasis olivella.—Testâ plicatâ, fusiformi, subcrassâ, olivaceâ, fulgidâ, evittatâ; spirâ obtuso-conoideâ; suturis irregulariter et valdè impressis; anfractibus instar quinis, convexiusculis; aperturâ grandi, rhomboideâ, albidâ: labro acuto, vix sinuoso; columellâ incurvâ et contortâ.
*Hab.*—Tennessee, Prof. Troost.

Goniobasis purpurella.—Testâ plicatâ, conoideâ, tenui, purpurescente, fulgidâ, vittatâ vel evittatâ, spirâ conoideâ; suturis impressis; anfractibus instar septenis, planulatis; aperturâ grandiusculâ, rhomboideâ, intus tenebrosâ; labro acuto, vix sinuoso; columellâ incurvâ et contortâ.
*Hab.*—Caney-Fork River, Tennessee, J. Lewis, M. D.

Goniobasis cinerella.—Testâ plicatâ, subfusiformi, tenui, luteo cinereâ, evittatâ; spirâ obtusè conoideâ; suturis irregulariter impressis; anfractibus senis, convexiusculis; aperturâ grandiusculâ, ovato-rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ incurvâ et parum contortâ.
*Hab.*—Tennessee, Coleman Sellers.

Goniobasis Christyi.—Testâ plicatâ vel striatâ vel granulatâ, fusiformi, subcrassâ, inflatâ, luteo-olivaceâ, vittatâ; spirâ obtusè conoideâ; suturis impressis; anfractibus quinis, convexiusculis; aperturâ pergrandi, ovato-rhomboideâ, intus vittatâ; labro acuto, vix sinuoso; columellâ incrassatâ, parum contortâ.
*Hab.*—Valley River, Cherokee County, N. Carolina, Prof. David Christy.

Goniobasis instabilis.—Testâ plicatâ vel lævi, fusiformi, crassâ, subinflatâ, vittatâ vel evittatâ, olivaceâ; spirâ conoideâ; suturis impressis; anfractibus instar quinis, convexiusculis; aperturâ grandi, ovato-rhomboideâ, intus vittatâ; labro acuto, vix sinuoso; columellâ incrassatâ, parum incurvâ et contortâ.

*Hab.*—Twenty-one miles north of Murphy and other places in Cherokee County, Georgia, Prof. David Christy.

Goniobasis Gerhardtii.—Testâ carinatâ, fusiformi, tenui, fulgidâ, luteo-virente, quadrivittatâ; spirâ regulariter conicâ; suturis impressis; anfractibus senis, planulatis, ultimo grandi; aperturâ magnâ, rhomboideâ, intus albidâ et vittatâ; labro acuto, parum sinuoso; columellâ incurvâ, infernè paulisper incrassatâ.

*Hab.*—Chattanooga River, Georgia, Alexander Gerhardt. Coosa River, Alabama, Dr. Spillman.

Goniobasis infuscata.—Testâ carinatâ, fusiformi, subtenui, fulgidâ, tenebrosâ, nigricante, trivittatâ; spirâ conoideâ; suturis impressis; anfractibus instar senis, supernè planulatis, ultimo grandi; aperturâ submaguâ, rhomboideâ; intus albidâ vel fuscâ, trivittatâ; labro acuto, parum sinuoso; columellâ incurvâ, infernè paulisper incrassatâ,

*Hab.*—Georgia, Rev. G. White. Coosa River, Alabama, Dr. Spillman.

Goniobasis mutabilis.—Testâ carinatâ vel plicatâ vel striatâ, subfusiformi, subcrassâ, luteo-virente, quadrivittatâ vel evittatâ; spirâ obtusè conoideâ; anfractibus seuis, planiusculis; aperturâ subgrandi, rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ incurvâ, incrassatâ, parum contortâ.

*Hab.*—Butts County, Ga., Rev. G. White.

Goniobasis cruda.—Testâ carinatâ, subfusiformi, subtenui, fulgidâ, tenebroso-fuscâ, obsoletè vittatâ; spirâ obtusâ; suturis paulisper impressis; anfractibus supernè plauulatis, ultimo grandi; aperturâ submagnâ, rhomboideâ, intus tenebrosâ; labro acuto, vix sinuoso; columellâ paulisper incurvâ, vix incrassatâ.

*Hab.*—Tennessee River, Dr. Spillman.

Goniobasis rubella.—Testâ carinatâ, subulatâ, subtenui, rubicundâ, evittatâ; spirâ attenuatâ; suturis valdè impressis; anfractibus octonis, vix convexis; aperturâ parvissimâ, subrhomboideâ, intus vel albidâ vel rubidâ; labro acuto, sinuoso: columellâ parum incurvâ et contortâ.

*Hab.*—Near Murphy, Cherokee County, N. Carolina, Prof. Christy.

Goniobasis macella.—Testâ carinatâ, subulatâ, tenui, olivaceâ, evittatâ; spirâ subattenuatâ; suturis valdè impressis; anfractibus septenis, convexiusculis; aperturâ parvissimâ, subrhomboideâ, intus albidâ, ad basim maculatâ; labro acuto, parum sinuoso; columellâ incurvâ et paulisper contortâ.

*Hab.*—Coosa River, Alabama, Prof. Brumby.

Goniobasis rubiginosa.—Testâ carinatâ, subsubulatâ, subtenui, fulgidâ, rubiginosâ, obsoletè vittatâ; spirâ subattenuatâ; suturis valdè impressis; anfractibus instar senis, convexis; aperturâ parvissimâ, subrhomboideâ, intus dilutè rubiginosâ; obsoletè bivittatâ; labro acuto, sinuoso; columellâ parum incurvâ et contortâ.

*Hab.*—Oregon, W. Newcomb, M. D.

Goniobasis Ucheénsis.—Testâ carinatâ, obtusè conoideâ, subtenui, corneâ, evittatâ; spirâ obtusâ; suturis impressis; anfractibus instar senis, planulatis; aperturâ submagnâ, ovato-rhomboideâ, intus albidâ; labro acuto, parum sinuoso; columellâ incurvâ, paulisper contortâ.

*Hab.*—Little Uchee River, below Columbus, Georgia, G. Hallenbeck, Esq.

Goniobasis inosculata.—Testâ carinatâ, conoideâ, subtenui, luteo-corneâ, evittatâ; spirâ subelevatâ; suturis impressis; anfractibus instar septenis, convexiusculis; aperturâ submagnâ, rhomboideâ, intus albidâ; labro acuto. sinuoso; columellâ incurvâ, infernè incrassatâ.

*Hab.*—Little Uchee River, below Columbus, Georgia, G. Hallenbeck, Esq.

Goniobasis Barrattii.—Testâ carinatâ, subfusiformi, subtenui, virido-corneâ vel rufo-corneâ, obsoletè vittatâ vel evittatâ; spirâ obtuso-conoideâ; suturis valdè impressis; anfractibus septenis, convexiusculis, ad apicem plicatis; aperturâ submagnâ, subrhomboideâ, intus albidâ vel obsoletè vittatâ; labro acuto, vix sinuoso; columellâ parum contortâ.

*Hab.*—Abbeville District, S. Carolina, J. P. Barratt, M. D.

Goniobasis rubricata.—Testâ carinatâ, conoideâ, subtenui, rufo-fuscâ, politâ, evittatâ; spirâ subelevatâ; suturis valdè impressis; anfractibus instar septenis, convexis; aperturâ submagnâ, rhomboideâ, intus dilutè rubidâ, labro acuto, vix sinuoso; columellâ incurvâ, parum incrassatâ.

*Hab.*—Tennessee, Prof. Troost.

Goniobasis Bentoniensis.—Testâ carinatâ, plicatâ, striatâ, conoideâ, subtenui, virido-corneâ, evittatâ; spirâ elevatâ, conoideâ; suturis valdè impressis; anfractibus septenis, convexiusculis; aperturâ parviusculâ, ovato-rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ incurvâ, parum contortâ.

*Hab.*—Benton County? North Alabama, G. Hallenbeck, Esq.

Goniobasis negata.—Testâ striatâ, ellipticâ, subconicâ, crassâ, luteolâ, quadrivittatâ; spirâ obtusè conicâ; suturis valdè et irregulariter impressis; anfractibus senis, convexiusculis, ultimo grandi; aperturâ parviusculâ, ovatâ, intus albidâ et quadrivittatâ; labro acuto, spissato; columellâ inflectâ, incrassatâ, ad basim obtusè angulatâ.

*Hab.*—Coosa River, Alabama, E. R. Showalter, M. D.

Goniobasis Elliottii.—Testâ obsoletè striatâ, subobtuso-conoideâ, subcrassâ, vel flavescente vel fuscescente, evittatâ; spirâ subobtusâ; suturis valdè impressis; anfractibus instar senis, convexiusculis; aperturâ magnâ, ovato rhomboideâ, intus vel albidâ vel fuscâ; labro acuto, parum sinuoso; columellâ paulisper incurvâ, incrassatâ et parum contortâ.

*Hab.*—Fannin County, Georgia, Bishop Elliott. Uchee and Little Uchee Rivers, Alabama, G. Hallenbeck and Dr. Gesner.

Goniobasis flavescens.—Testâ striatâ, interdum granulatâ et plicatâ, subcylindraceâ, flavescente, crassâ; spirâ obtusè conoideâ; suturis irregulariter impressis; anfractibus convexiusculis, ultimo pergrandi; aperturâ grandi, subrhomboideâ, intus vittatâ vel albâ; labro acuto, vix sinuoso, columellâ incurvâ, supernè valdè incrassatâ et contortâ.

*Hab.*—Oconee and Tennessee Rivers, Tennessee, Rev. G. White.

Goniobasis Hallenbeckii.—Testâ tuberculatâ, infernè transversè striatâ, turritâ, subtenui, luteo corneâ vel olivaceâ, vittatâ vel evittatâ; spirâ elevato-turritâ; suturis valdè impressis; anfractibus octonis, carinatis, ad peripheriam compresso-tuberculatis; aperturâ magnâ, ovato-rhomboideâ, intus albidâ; labro crenulato, sinuoso; columellâ incurvâ, parum incrassatâ et valdè contortâ.

*Hab.*—Randall's Creek, near Columbus, Georgia, G. Hallenbeck, Esq.

Goniobasis Canbyi.—Testâ tuberculatâ, plicatâ, infernè transversè striatâ, turritâ, tenui, vel fuscâ vel dilutè fuscâ, maculatâ; spirâ turritâ; suturis irregulariter impressis; anfractibus septenis, carinatis, ad peripheriam compresso-tuberculatis; aperturâ parvâ, rhomboideâ, intus maculatâ; labro crenulato, sinuoso; columellâ incurvâ et valdè contortâ.

*Hab.*—Lake Monroe, Florida, Wm. Canby, and Etowah and Tennessee Rivers, Georgia, J. Postell.

Goniobasis Couperii.—Testâ tuberculatâ, plicatâ, infernè et supernè striatâ, turritâ, tenui, tenebroso-fuscâ, ad basim vittatâ; spirâ turritâ; suturis valdè impressis; anfractibus septenis, subcarinatis, ad peripheriam et supra compresso-tuberculatis; aperturâ parvissimâ, subrhomboideâ, intus tenebroso et

uno-vittatâ; labro crenulato, valdè sinuoso; columellâ incurvâ, contortâ et purpurescente.

*Hab.*—Etowah River, Mr. Couper, by J. Postell.

Goniobasis Downieana.—Testâ tuberculatâ, subturritâ, superuè clathratà et subcarinatâ, infernè transversè striatâ, tenui, dilutè fuscâ; spirâ conoideâ, clathratâ; suturis irregulariter impressis; anfractibus septenis, subcarinatis, ad peripheriam et supra compresso-tuberculatis; aperturâ submagnâ, ovato-rhomboideâ, intus albidâ; labro crenulato, sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Etowah River, J. Postell.

Goniobasis Tryoniana.—Testâ granulosâ vel striatâ, subfusiformi, luteo-fuscâ vel tenebroso-fuscâ, crassâ, robustâ, vittatâ, rarò evittatâ, spirâ obtusè conoideâ; suturis irregulariter impressis; anfractibus instar senis, ultimo pergrandi; aperturâ pergrandi, ovato-rhomboideâ, intus valdè vittatâ; labro subcrenulato, vix sinuoso; columellâ paulisper incurvâ et vix contortâ.

*Hab.*—Oostenaula, near Rome, Bishop Elliott. Etowah River, Georgia, J. Postell, and Ocoee River and Tennessee River, Rev. G. White.

Goniobasis granata.—Testâ granulosâ, infernè striatâ, fusiformi, vittatâ, subcrassâ, fulgidâ, inflatâ, olivaceâ vel rubiginosâ; spirâ depressâ; suturis irregulariter impressis; anfractibus iustar quinis, planiusculis, ultimo pergrandi; aperturâ grandi, ovato-rhomboideâ, intus valdè vittatâ; labro parum crenulato, vix sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Etowah River, near Canton, Georgia, Bishop Elliott and Rev. G. White.

Goniobasis Stewardsoniana.—Testâ granulatâ, transversè striatâ, subfusiformi, crassâ, fulgidâ, inflatâ, viridi vel fuscâ, evittatâ; spirâ perobtusâ; suturis impressis; anfractibus convexiusculis; aperturâ pergrandi, ovato-rhomboideâ, intus albâ; labro acuto, subsinuoso; columellâ incurvâ, supernè et infernè incrassatâ et contortâ.

*Hab.*—Knoxville, Kentucky, B. W. Budd, M. D.

Goniobasis cadus.—Testâ cancellatâ, fusiformi, subcrassâ, inflatâ, flavescente, evittatâ; spirâ subobtusâ; suturis irregulariter impressis; anfractibus quinis, convexiusculis, supernè cancellatis; aperturâ pergrandi, ovato-rhomboideâ, intus albâ; labro acuto, parum sinuoso; columellâ incurvâ, incrassatâ et contortâ.

*Hab.*—Georgia, Major J. Le Conte.

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## Descriptions of Eleven New Species of MELANIDÆ of the United States.

BY ISAAC LEA.

Trypanostoma Henryanum.—Testâ carinatâ, attenuatâ, mucronatâ, tenui, diaphanâ, pallido-corneâ, evittatâ; spirâ regulariter attenuato conicâ; suturis regulariter impressis; anfractibus denis, planulatis, infernè medio regulariter carinatis et striatis; aperturâ parvâ, subrhomboideâ, intus albidâ; labro valdè acuto, sinuoso; columellâ incurvâ et valdè contortâ.

*Hab.*—Tennessee? Smithsonian Institution.

Trypanostoma rostellatum.—Testâ striatâ, attenuatâ, subtenui, corneâ, evittatâ; spirâ elevatâ; suturis valdè impressis; anfractibus octonis, convexiusculis; aperturâ parvâ, rhomboideâ, intus albidâ; labro acuto, valdè sinuoso; columellâ incurvâ et valdè contortâ.

*Hab.*—Florence, Alabama, Rev. G. White.

Trypanostoma strictum.—Testâ carinatâ, subattenuatâ, tenui, diaphanâ, pallido-corneâ, uno-vittatâ; spirâ regulariter conicâ; suturis linearibus; anfractibus instar senis, supernè planulatis; aperturâ parviusculâ, rhomboideâ,